1. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{7x-8}{4} - \frac{9x+5}{8} = \frac{5x-7}{7}$$

A. $x \in [-68.2, -66.2]$

B. $x \in [-2.23, 2.77]$

C. $x \in [-22.2, -15.2]$

D. $x \in [-5.2, -2.2]$

E. There are no real solutions.

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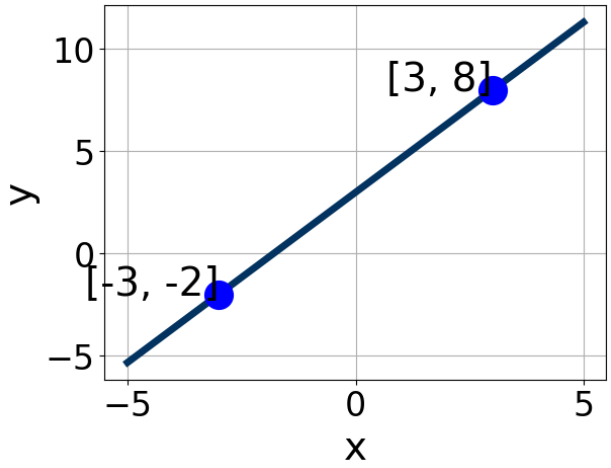
2. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [5, 8]$, $B \in [1.24, 3.48]$, and $C \in [7.4, 9.5]$

B. $A \in [-2.67, 3.33]$, $B \in [-2.13, -0.61]$, and $C \in [-4.5, -2.9]$

C. $A \in [5, 8]$, $B \in [-3.76, -1.94]$, and $C \in [-9.2, -7.4]$

D. $A \in [-2.67, 3.33]$, $B \in [0.53, 1.28]$, and $C \in [1.3, 3.4]$

E. $A \in [-7, -4]$, $B \in [1.24, 3.48]$, and $C \in [7.4, 9.5]$

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3. Find the equation of the line described below. Write the linear equation

in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $9x - 5y = 11$ and passing through the point $(-8, 8)$.

A. $m \in [0.9, 2.6]$ $b \in [15, 18]$

B. $m \in [0.9, 2.6]$ $b \in [-22.4, -20.4]$

C. $m \in [-2.8, -1.2]$ $b \in [-9.4, -1.4]$

D. $m \in [-0.1, 1.2]$ $b \in [21.4, 24.4]$

E. $m \in [0.9, 2.6]$ $b \in [21.4, 24.4]$

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4. Solve the equation below. Then, choose the interval that contains the solution.

$$-7(-19x - 4) = -10(-2x - 15)$$

A. $x \in [1.14, 1.63]$

B. $x \in [0.78, 1.1]$

C. $x \in [-1.34, -0.95]$

D. $x \in [-1.7, -1.34]$

E. There are no real solutions.

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5. Find the equation of the line described below. Write the linear equation in the form $y = mx + b$ and choose the intervals that contain m and b.

Parallel to $5x + 3y = 4$ and passing through the point $(-10, 7)$.

A. $m \in [-2.68, -1.16]$ $b \in [-12.67, -1.67]$

B. $m \in [-2.68, -1.16]$ $b \in [7.67, 12.67]$

C. $m \in [-0.34, 2.7]$ $b \in [22.67, 24.67]$

D. $m \in [-2.68, -1.16]$ $b \in [17, 21]$

E. $m \in [-1.51, -0.19]$ $b \in [-12.67, -1.67]$

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6. Solve the linear equation below. Then, choose the interval that contains the solution.

$$\frac{-3x+9}{5} - \frac{-5x+5}{2} = \frac{6x+7}{4}$$

A. $x \in [-6.38, -3.38]$

B. $x \in [7.5, 10.5]$

C. $x \in [-2.61, 0.39]$

D. $x \in [3.13, 7.13]$

E. There are no real solutions.

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7. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(-6, -3) \text{ and } (10, -8)$$

A. $m \in [-0.81, -0.1]$ $b \in [2.1, 3.4]$

B. $m \in [-0.81, -0.1]$ $b \in [4.4, 7]$

C. $m \in [-0.81, -0.1]$ $b \in [-19.2, -17]$

D. $m \in [-0.81, -0.1]$ $b \in [-6.2, -4.4]$

E. $m \in [-0.2, 0.42]$ $b \in [-11.9, -11.1]$

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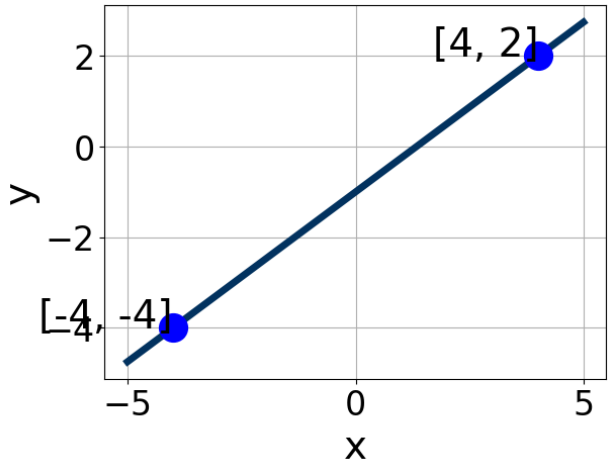
8. Write the equation of the line in the graph below in Standard Form $Ax + By = C$. Then, choose the intervals that contain $A, B,$ and C.



A. $A \in [-1.7, 2.6]$, $B \in [0.2, 2.1]$, and $C \in [-1.5, -0.4]$

B. $A \in [-3.8, -1.5]$, $B \in [2.6, 4.3]$, and $C \in [-5.2, -3.5]$

C. $A \in [-1.7, 2.6]$, $B \in [-3.2, -0.2]$, and $C \in [-0.4, 2.3]$

D. $A \in [1.8, 3.1]$, $B \in [-5.6, -1.8]$, and $C \in [2.8, 4.9]$

E. $A \in [1.8, 3.1]$, $B \in [2.6, 4.3]$, and $C \in [-5.2, -3.5]$

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9. First, find the equation of the line containing the two points below. Then, write the equation in the form $y = mx+b$ and choose the intervals that contain m and b.

$$(5, 7) \text{ and } (2, 6)$$

A. $m \in [-0.2, 1.5]$ $b \in [-0.43, 3.03]$

B. $m \in [-0.2, 1.5]$ $b \in [3.69, 4.44]$

C. $m \in [-0.2, 1.5]$ $b \in [4.59, 5.78]$

D. $m \in [-0.2, 1.5]$ $b \in [-6.33, -5.05]$

E. $m \in [-2.3, -0.1]$ $b \in [6.03, 7.9]$

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10. Solve the equation below. Then, choose the interval that contains the solution.

$$-6(-4x + 9) = -3(-8x - 17)$$

A. $x \in [-0.04, 0.05]$

B. $x \in [0.05, 0.1]$

C. $x \in [-0.04, 0.05]$

D. $x \in [-0.04, 0.05]$

E. There are no real solutions.
